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**Directorate of Academic Planning**  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

*Tr. No. DAP/AC/III Year /B. Tech/B. Pharmacy/2022*

*Date 14.09.2022*

**Dr. KVSG Murali Krishna,**  
*M.E. Ph.D.*  
**Director, Academic Planning**  
**JNTUK, Kakinada**

To  
All the Principals of Affiliated Colleges.  
JNTUK, Kakinada.

**Academic Calendar for III Year - B. Tech/B. Pharmacy for the AY 2022-23  
(2020-21 Admitted Batch)**

I SEMESTER			
Description	From	To	Weeks
Community Service Project	15.07.2022	30.07.2022	2W
I Unit of Instruction	01.08.2022	24.09.2022	8W
I Mid Examinations	26.09.2022	01.10.2022	1W
II Unit of Instructions	03.10.2022	26.11.2022	8W
II Mid Examinations	28.11.2022	03.12.2022	1W
Preparation & Practicals	05.12.2022	10.12.2022	1W
End Examinations	12.12.2022	25.12.2022	2W
Commencement of II Semester Class Work	02.01.2023		
II SEMESTER			
I Unit of Instructions	02.01.2023	25.02.2023	8W
I Mid Examinations	27.02.2023	04.03.2023	1W
II Unit of Instructions	06.03.2023	29.04.2023	8W
II Mid Examinations	01.05.2023	06.05.2023	1W
Preparation & Practicals	08.05.2023	13.05.2023	1W
End Examinations	15.05.2023	27.05.2023	2W

\* As per the APSICHE Guidelines Out of the Total 180 hours of Community Service Project leading to 4 Credits, two weeks will be offline and remaining project work can be done during the III-I semester weekends and holidays. The summer internship can be done in online cum offline during III-I and III-II semesters.

**Director,**  
**Academics & Planning, JNTUK**  
**Director**  
**Academic Planning**  
**JNTUK Kakinada**

Copy to the Secretary to the Hon'ble Vice Chancellor, JNTUK  
Copy to Rector, Registrar, JNTUK  
Copy to Director Academic Audit, JNTUK  
Copy to Director of Evaluation, JNTUK



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**PRINCIPAL**  
**V. V. Institute of**  
**Pharmaceutical Sciences**  
Seshadri Rao Knowledge Village  
GUDLAVALLERU - 521 356



# V. V. INSTITUTE OF PHARMACEUTICAL SCIENCES

Seshadri Rao Knowledge Village, GUDLAVALLERU - 521 356, Krishna District, A.P.

(Approved by AICTE & PCI, New Delhi and Affiliated to JNTUK, Kakinada)

Sponsored by A.A.N.M. & V.V.R.S.R. Educational Society

Phone : 08674-274649, Fax : 08674-274441

E-mail : venkatadripharmacy@gmail.com, Website : www.vvipsgudlavalleru.ac.in

## Academic Calendar of III Year B. Pharmacy

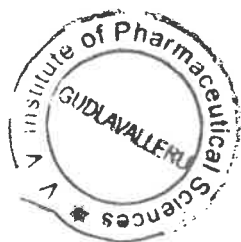
Academic year 2022-2023

I SEMESTER			
Description	From	To	Weeks
Community Service Project	15-07-2022	30-07-2022	2 W
I Unit of instructions	01-08-2022	24-09-2022	8 W
I Mid examination	26-09-2022	01-10-2022	1 W
II Unit of instructions	03-10-2022	26-11-2022	8 W
II Mid examination	28-11-2022	03-12-2022	1 W
Preparation & Practicals	05-12-2022	10-12-2022	1 W
End Examinations	12-12-2022	25-12-2022	2 W
Commencement of II Semester class work	02-01-2023		
II SEMESTER			
I Unit of instructions	02-01-2023	25-02-2023	8 W
I Mid examination	27-02-2023	04-03-2023	1 W
II Unit of instructions	06-03-2023	29-04-2023	8 W
II Mid examination	01-05-2023	06-05-2023	1 W
Preparation & Practicals	08-05-2023	13-05-2023	1 W
End Examinations	15-05-2023	27-05-2023	2 W



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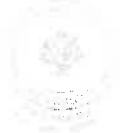


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(Established by AP Government Act No. 30 of 2008)

Er. No. JNTUK/DAP/ACT/Year/M.Tech/2022-23

Date: 31-10-2022

Dr. KVSG Murali Krishna,

M.E. Ph.D.

Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Academic Calendar of I Year M. Tech/M. Pharmacy for Academic year 2022-23**

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	31.10.2022		
Induction Classes	31.10.2022	05.11.2022	1W
I Unit of Instruction	07.11.2022	31.12.2022	8W
I Mid Examinations	26.12.2022	31.12.2022	
II Unit of Instructions	02.01.2023	25.02.2023	8W
II Mid Examinations	20.02.2023	25.02.2023	
Preparation & Practicals	27.02.2023	04.03.2023	1W
End Examinations	06.03.2023	18.03.2023	2W
Commencement of II Semester Class Work	20.03.2023		

  
31/10/22

Director Academics & Planning


JNTUK Kakinada

Academic Planning

JNTUK Kakinada

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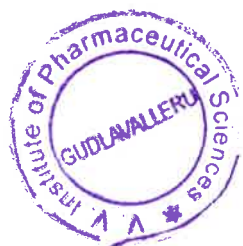
Phone : 08674-274649, Fax : 08674-274441

E-mail : venkatadripharmacy@gmail.com, Website : www.vvipsgudlalleru.ac.in

## Academic Calendar of I Year M. Pharmacy

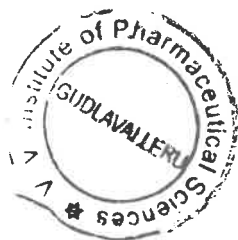
Academic year 2022-2023

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	31-10-2022		
Induction classes	31-10-2022	05-11-2022	1 W
I Unit of instructions	07-11-2022	31-12-2022	8 W
I Mid examination	26-12-2022	31-12-2022	
II Unit of instructions	02-01-2023	25-02-2023	8 W
II Mid examination	20-02-2023	25-02-2023	
Preparation & Practicals	27-02-2023	04-03-2023	1 W
End Examinations	06-03-2023	18-03-2023	2 W
Commencement of II Semester class work	20-03-2023		



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# V. V. INSTITUTE OF PHARMACEUTICAL SCIENCES

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Class Time-Table :: Academic Year 2022-2023

## III B. Pharm. I Sem.

### Section A

W.E.F:01-08-2022

DAY	1	2	3	4	12.20 - 1.20	5	6	7	8
	9.00-9.50	9.50-10.40	10.40-11.30	11.30-12.20		1.20-2.10	2.10-3.00	3.00-3.50	3.50-4.40
MON	PJ	IP-I Practical - Batch A1 PCL-II Practical - Batch A2			L U N C H	MC-II	IP-I	PCL-II	PCG-II(T)
TUE	PCG-II	IP-I Practical - Batch A2 PCL-II Practical - Batch A1				PJ	MC-II	IP-I	PCL-II(T)
WED	PCL-II	PCG-II Practical - Batch A1 LIBRARY - Batch A2				LIB	PCG-II	PJ	IP-I(T)
THU	IP-I	PCG-II Practical - Batch A2 LIBRARY - Batch A1				MC-II	PCL-II	PCG-II	PJ(T)
FRI	MC-II	IP-I	PJ	PCL-II		PCG-II	MC-II(T)	JC	
SAT	PJ	PCG-II	MC-II	PCL-II		IP-I	SPORTS		X

### Section B

DAY	1	2	3	4	12.20 - 1.20	5	6	7	8
	9.00-9.50	9.50-10.40	10.40-11.30	11.30-12.20		1.20-2.10	2.10-3.00	3.00-3.50	3.50-4.40
MON	MC-II	PCG-II Practical - Batch B1 LIBRARY - Batch B2			L U N C H	PCL-II	PCG-II	PJ	IP-I(T)
TUE	IP-I	PCG-II Practical - Batch B2 LIBRARY - Batch B1				LIB	PCL-II	PCG-II	MC-II(T)
WED	PJ	IP-I Practical - Batch B1 PCL-II Practical - Batch B2				MC-II	IP-I	PCL-II	PCG-II(T)
THU	PCG-II	IP-I Practical - Batch B2 PCL-II Practical - Batch B1				PJ	IP-I	MC-II	PCL-II(T)
FRI	PCL-II	PCG-II	MC-II	IP-I		IP-I	PJ(T)	SPORTS	
SAT	MC-II	PCL-II	PJ	PCG-II		JC		PJ	X

Subject      No. of  
Co              Hours

Subject

Name of the Faculty

MC-II      5+1  
IP-I        5+1  
PCL-II     5+1  
PCG-II     5+1  
PJ          5+1

Medicinal Chemistry-II

Ms. B. Satya Sree

IP-I        5+1

Industrial Pharmacy-I

Ms. M.N.L.T. Amaleswari

PCL-II     5+1

Pharmacology-II

Dr. Sk. Aminabee

PCG-II     5+1

Pharmacognosy and Phytochemistry-II

Dr. P. Raveesha

PJ          5+1

Pharmaceutical Jurisprudence

Ms. M. Yamini

IP-I Lab      3

Industrial Pharmacy-I Lab

Ms. M.N.L.T. Amaleswari

PCL-II Lab    3

Pharmacology-II Lab

Dr. SK. Aminabee

PCG-II Lab    3

Pharmacognosy and Phytochemistry-II Lab

Dr. P. Raveesha

Sec: M. Yamini

Sec: *Satyashobha*

Class Incharge



*Satyashobha*  
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*Satyashobha*  
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Class Time-Table :: Academic Year 2022-23

I M. Pharm. I Sem.

W.E.F: 07-11-2022

Specialization: Pharmaceutical Analysis

DAY	1	2	3	4	12.20 - 1.20	5	6	7	8
	9.00-9.50	9.50-10.40	10.40-11.30	11.30-12.20		1.20-2.10	2.10-3.00	3.00-3.50	3.50-4.40
MON	MPAT	APA	PV	FA	<b>L U N C H</b>	PAP-I			
TUE	FA	MPAT	APA	PV		PAP-I			
WED	PV	FA	MPAT	APA		PAP-I			
THU	APA	PV	FA	MPAT		PAP-II			
FRI	MPAT	APA	PV	FA		LIBRARY			
SAT	SEMINARS					SEMINARS			X

<u>Subject Code</u>	<u>No. of Hours</u>	<u>Subject</u>	<u>Name of the Faculty</u>
MPAT	5	Modern Pharmaceutical Analytical Techniques	Ms. T. Prasanthi
APA	5	Advanced Pharmaceutical Analysis	Dr. B. Mohan Gandhi
PV	5	Pharmaceutical Validation	Ms. A. Sai Datri
FA	5	Food Analysis	Dr. T. Raja
AP-I	12	Pharmaceutical Analysis Practical -I	Ms. T. Prasanthi
PAP-II	12	Pharmaceutical Analysis Practical -II	Dr. B. Mohan Gandhi

*T. Prasanthi*  
Time-Table Incharge

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**Staff Workload for the Academic Year 2022-23**

**III Year B.Pharmacy I Semester**

**Date: 19-07-2022**

<b>S. No.</b>	<b>Name of the Faculty</b>	<b>Subjects Allotted</b>	<b>Th.</b>	<b>Pr.</b>	<b>Total</b>
1.	Dr. Sk. Aminabee	Pharmacology-II	2X6	4X3	24
2.	Dr. P. Raveesha	Pharmacognosy and Phytochemistry-II	2X6	4X3	24
3.	Ms. B. Satya Sree	Medicinal Chemistry-II	2X6	-	12
4.	Ms. M. Yamini	Pharmaceutical Jurisprudence	2X6	-	12
5.	Ms. M. L. N. T. Amaleswari	Industrial Pharmacy-I	2X6	4X3	24



  
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**V. V. Institute of Pharmaceutical Sciences**  
**Seshadri Rao Knowledge Village, Gudlavalleru- 521 356.**

**Staff Workload for the Academic Year 2022-23**

**I Year M.Pharmacy I Semester**

**Date: 02-11-2022**

<b>S. No.</b>	<b>Name of the Faculty</b>	<b>Subjects Allotted</b>	<b>Th.</b>	<b>Pr.</b>	<b>Total</b>
1	Dr. T. Raja	Food Analysis	5	-	5
2	Dr. T. Prasanthi	Modern Pharmaceutical Analytical Techniques Pharmaceutical Analysis Practical-I	5 -	- 8	13
3	Dr. B. Mohan Gandhi	Advanced Pharmaceutical Analysis Pharmaceutical Analysis Practical-I	5 -	- 8	13
4	Ms. A. Sai Datri	Pharmaceutical Validation	5	-	5



  
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## V. V. Institute of Pharmaceutical Sciences

Seshadri Rao Knowledge Village, Gudlavalleru- 521356.

### Lesson Plan

**Subject:** Medicinal Chemistry-II

**Class & Sem:** III Year I Sem

**Name of the Faculty:** Ms. B. Satya Sree

**Designation:** Associate Professor

**Branch:** B.Pharmacy

**Year:** 2022-23

**Section:** Section A

Lecture No.	Topics Covered	Teaching planned on(Date)	Teaching Aids used
1	Introduction to Medicinal chemistry-II	01-08-2022	Black Board
<b>Unit-I</b>			
2	Introduction to Antihistaminic agents- Histamine structure, biosynthesis, storage and release.	02-08-2022	Black Board
3	Metabolism of histamine and histamine receptors and their distribution in the human body.	04-08-2022	Black Board
4	Classification of antihistamines-H1-antagonists with examples	05-08-2022	Black Board
5	Classification of antihistamines-H2-antagonists with examples.	05-08-2022	Black Board
6	Synthesis of Diphenhydramine hydrochloride, Triprolidine hydrochloride, Promethazine hydrochloride.	06-08-2022	Black Board
7	Synthesis of Promethazine hydrochloride, Cimetidine. Mechanism of action of antihistamines.	08-08-2022	Black Board
8	Gastric Proton pump inhibitors.	11-08-2022	Black Board
9	Anti-neoplastic agents: Introduction Alkylating agents:	12-08-2022	Black Board
10	Tutorial	12-08-2022	
11	Classification of anticancer agents with examples-Alkylating agents	16-08-2022	Black Board
12	Classification of anticancer agents with examples-Antimetabolites	18-08-2022	Black Board
13	Classification of anticancer agents with examples-Anticancer antibiotics	20-08-2022	Black Board
14	Classification of anticancer agents with examples-Plant products	22-08-2022	Black Board
15	Mechanism of anticancer agents	23-08-2022	Black Board
16	Uses and side effects of anticancer agents	25-08-2022	Black Board
17	Synthesis of anticancer agents- Meclorothamine, Mercaptopurine, Methotrexate.	26-08-2022	Black Board
18	Tutorial	26-08-2022	



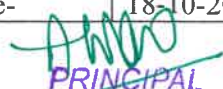
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<b>Unit-II</b>			
19	Antianginal agents-Introduction, classification	27-08-2022	Black Board
20	Vasodilators structure and mechanism of action	29-08-2022	Black Board
21	Calcium channel blockers structures and SAR of calcium channel blockers	30-08-2022	Black Board
22	Mechanism of action and uses of calcium channel blockers	01-09-2022	Black Board
23	Synthesis of nitroglycerine and Isosorbide dinitrate.	02-09-2022	Black Board
24	Tutorial	02-09-2022	
25	Introduction and classification of diuretics with examples of thiazide diuretics	03-09-2022	Black Board
26	SAR and mechanism of action of thiazide diuretics	06-09-2022	Black Board
27	Synthesis of chlorthiazide, carbonic anhydrase inhibitors mechanism of action and uses.	08-09-2022	Black Board
28	Potassium sparing diuretics-osmotic diuretics mechanism of action, uses and side effects.	09-09-2022	Black Board
29	Tutorial	09-09-2022	
30	Synthesis of furosemide. Antihypertensive agents classification	12-09-2022	Black Board
31	Antihypertensive agents classification-Drugs acting on sympathetic system	13-09-2022	Black Board
32	Drugs acting on rennin angiotensin system and vasodilators with examples	15-09-2022	Black Board
33	Drugs acting on sympathetic system-methyl dopa synthesis, uses and side effects.	16-09-2022	Black Board
34	Tutorial	16-09-2022	
35	Vasodilators mechanism of action, uses and side effects.	17-09-2022	Black Board
<b>UNIT-III</b>			
36	Anti-arrhythmic agents-Introduction, classification	19-09-2022	Black Board
37	Classification of anti-arrhythmics.	20-09-2022	Black Board
38	Mechanism of action, uses and side effects	22-09-2022	Black Board
39	Synthesis of disopyramide	22-09-2022	Black Board
40	Revision	23-09-2022	Black Board
41	Tutorial	23-09-2022	
42	Revision	24-09-2022	Black Board
<b>I mid Examination (26-09-2022)</b>			
43	Coagulants-Menadione and acetomenadione structures and uses	10-10-2022	Black Board
44	Anticoagulants classification with examples	11-10-2022	Black Board
45	Mechanism of action of anticoagulants	13-10-2022	Black Board
46	Uses and side effects and synthesis of warfarin	14-10-2022	Black Board
47	Antihyperlipidemic agents-classification with structures	14-10-2022	Black Board
48	Bile acid sequestrants and HMG Co-A reductase inhibitors mechanism of action, uses and side effects	15-10-2022	Black Board
49	Fibrates mechanism of action, uses and side effects	17-10-2022	Black Board
50	Drugs used in the treatment of congestive heart failure-	18-10-2022	Black Board




  
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	classification with examples		
51	Mechanism of action uses and side effects	20-10-2022	Black Board
52	Endotheline receptor antagonists-Natriuretic peptides mechanism of action, uses and side effects.	21-10-2022	Black Board
53	Tutorial	21-10-2022	
<b>UNIT-IV</b>			
54	Nomenclature of steroids and structures of sex hormones	22-10-2022	Black Board
55	Biosynthesis of sex hormones	25-10-2022	Black Board
56	Metabolism, physiological effects of sex hormones	27-10-2022	Black Board
57	About nonsteroidal estrogens and anabolic steroids	28-10-2022	Black Board
58	Tutorial	28-10-2022	
59	Drugs used in erectile dysfunction Corticosteroids classification, uses & side effects	29-10-2022	Black Board
60	Thyroids and antithyroids	31-10-2022	Black Board
61	Thyroids and antithyroids	01-11-2022	Black Board
62	Oral contraceptives	03-11-2022	Black Board
63	Oral contraceptives	04-11-2022	Black Board
64	Tutorial	04-11-2022	
<b>UNIT-V</b>			
65	Antidiabetics-Introduction, classification with examples	05-11-2022	Black Board
66	Biguanides-mechanism of action, uses and side effects	07-11-2022	Black Board
67	Meglitinides- mechanism of action, uses and side effects	08-11-2022	Black Board
68	Glucosidase inhibitors- mechanism of action, uses and side effects	10-11-2022	Black Board
69	Insulin-structure, biosynthesis and release	11-11-2022	Black Board
70	Tutorial	11-11-2022	
71	Insulin preparations with examples	14-11-2022	Black Board
72	Insulin preparations with examples	15-11-2022	Black Board
73	Local anesthetics-Introduction, classification with examples	17-11-2022	Black Board
74	classification with examples	18-11-2022	Black Board
75	SAR of local anesthetics	19-11-2022	Black Board
76	Mechanism of action of local anesthetics, synthesis of benzocaine	21-11-2022	Black Board
77	Synthesis of procaine and dibucaine	22-11-2022	Black Board
78	Revision	24-11-2022	PPT
79	Revision of old question papers	25-11-2022	Black Board
80	Tutorial	25-11-2022	
81	Revision	26-11-2022	Black Board
<b>II mid examination (28-11-2022)</b>			

  
Signature of the subject Incharge



  
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## Test No -03

1. Write the classification of Antianginal agents with examples.

Antianginal agents

The drugs (or) agents which are used for the treatment of angina pectoris are known as antianginal agents.

## Classification of antianginal agents:

Antianginal agents are classified into 2 classes

1. Vaso dilators :- eg:- Amyl nitrites  
Nitroglycerine

Penta erythritol tetranitrate

Isosorbide dinitrate

Difenidamole

Dipyridimole

2. Calcium channel blockers

Are again sub divided into 4 classes

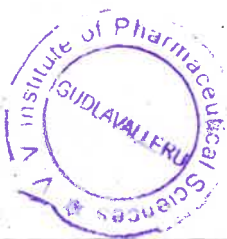
(1) 1,4 dihydro pyrimidine derivative - Nifedipine

Nicardipine

Nimodipine

Amelodipine

Felodipine

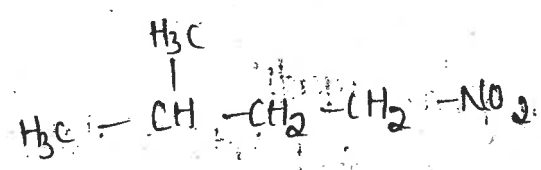




2. propylalkyl amine derivatives — Verapamil
3. Benzothiazepines — Diltiazem
4. — Bepridil hydrochloride

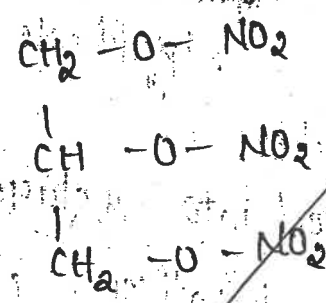
1. Vasodilators

(a) Amyl nitrite

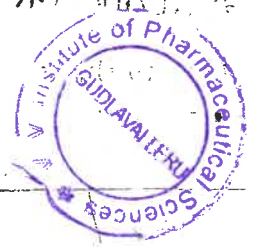


\* Onset of action 15-30 sec  
 Duration of action 8 min

(b) Nitroglycerine



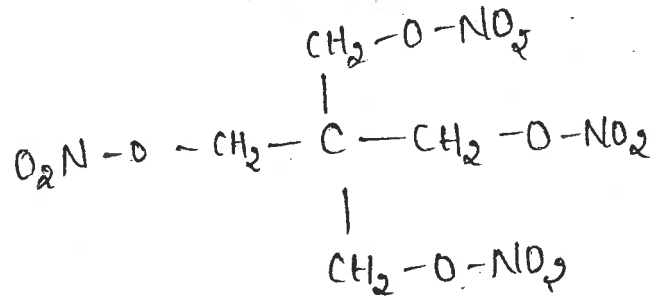
\* Onset of action 2 min  
 \* duration of action 30 min



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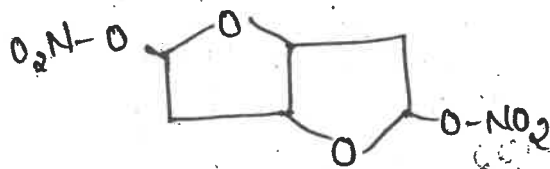


(c) Penta erythritol tetranitrite



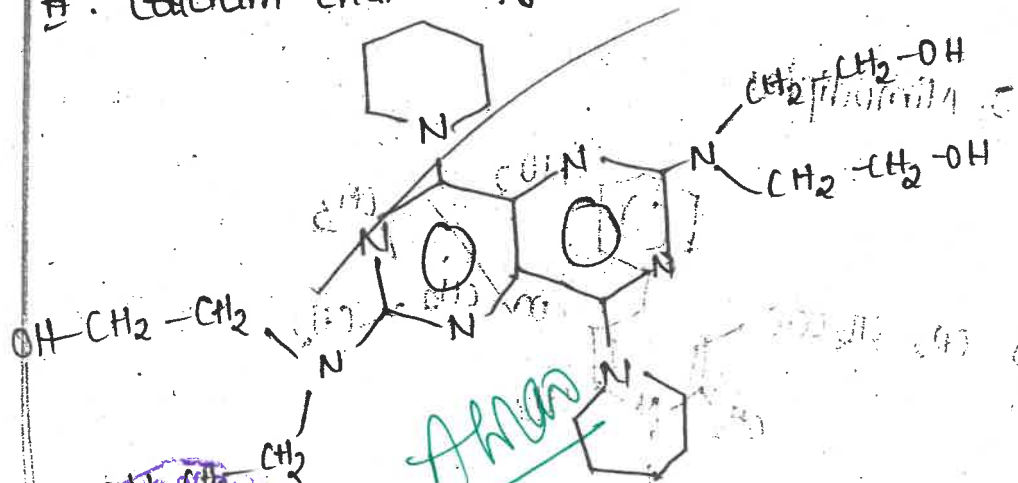
- \* It is more explosive in nature
- \* It is less used as vasodilator
- \* used as antianginal agent.

(d) Isosorbide dinitrate



- \* onset of action 3 min
- \* Duration of action 4-6 hours

(H) Calcium channel Dipyrimidamole

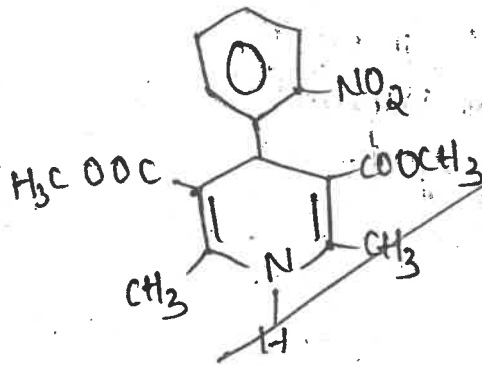


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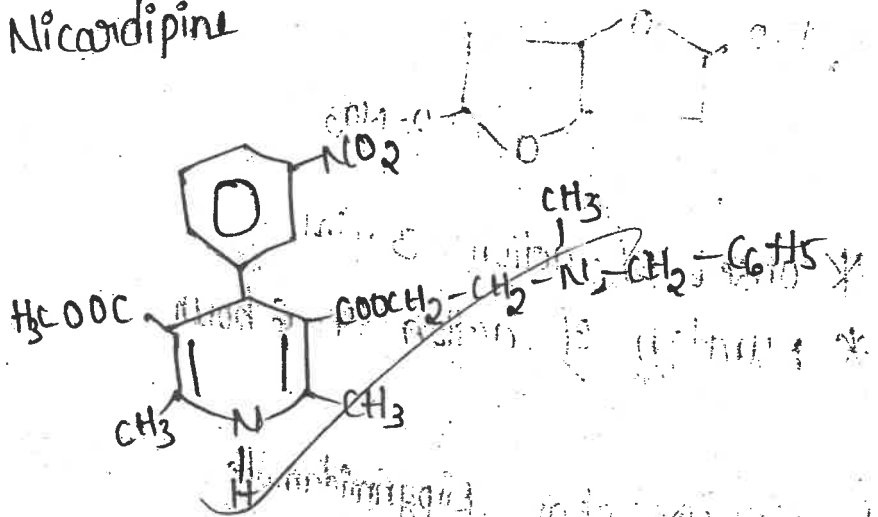
## II. Calcium channel blockers

### (a) 1,4 dihydro pyridine derivatives

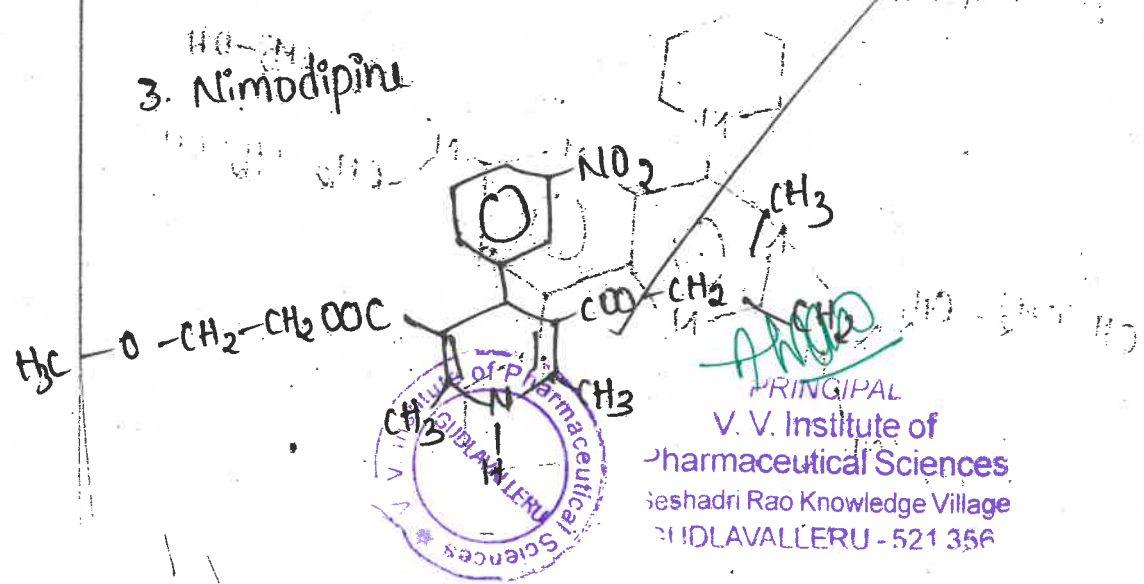
#### 1. Nifedipine



#### 2. Nicardipine

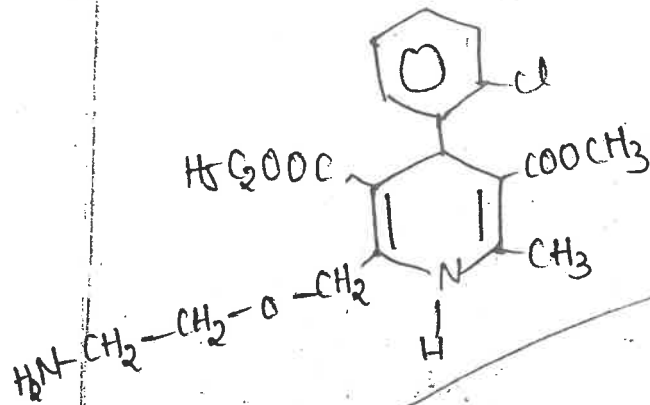


#### 3. Nimodipine

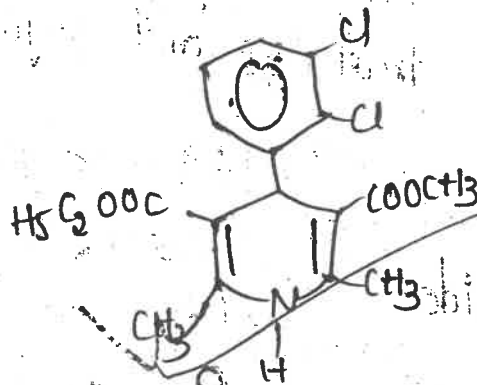


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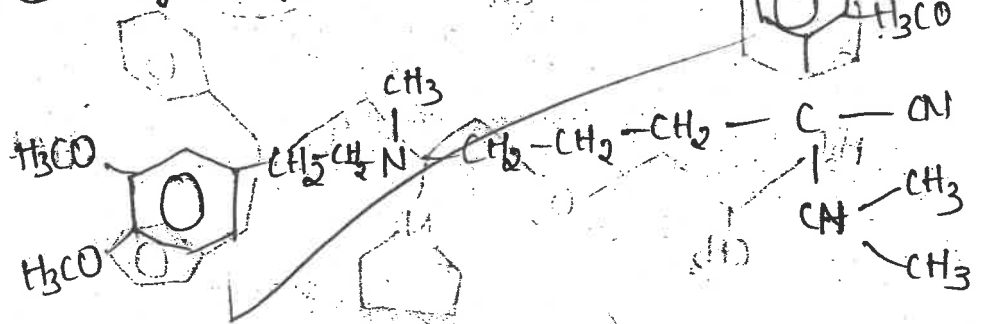
4. Amlodipine



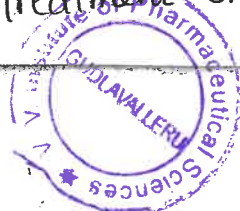
5. Felodipine



(b) Propyl alkyl amine derivatives → verapamil

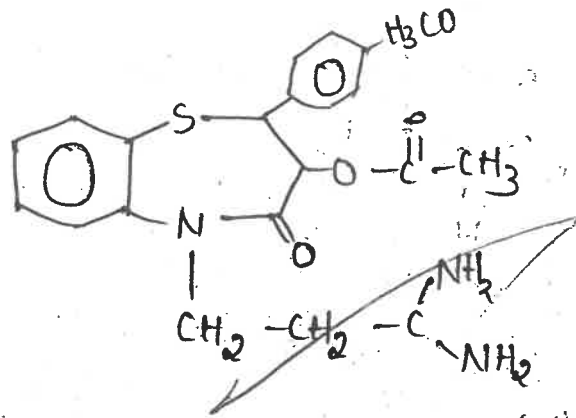


\* used as antianginal agent, supraventricular and treatment of tachycardia \*



\* In the condition of migraine and cluster headache

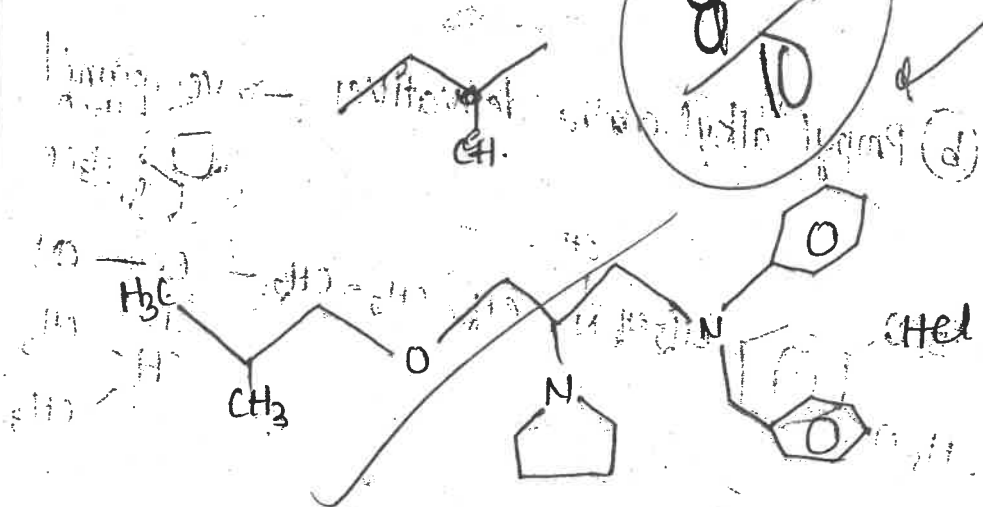
3. Benzothiazepines → Diltiazem



\* It is used as antianginal agent.

\* It is used to treat BP and angina.

4. Bepidil hydrochloride



\* It is used as clonidine antagonist.

\* It is used as antianginal agent, BP





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E-mail : venkatadripharmacy@gmail.com, Website : www.vvipsgudlavalleru.ac.in

## List of Add on Programmes for the Academic year 2022 to 2023

S.No	Name of the Programme	Date	No. of participants
1.	Two week Add on Programme on Animal Handling and Blood Collection Techniques	22-08-22 to 03-09-22	103
2.	Two week Add on Programme on Campus Recruitment training	17-10-22 to 29-10-22	91
3.	Two week Add on Programme on Chem Draw using Soft ware	5-12-22 to 17-12-22	109
4.	Two week Add on Programme on Method development and validation for estimation of drugs in HPLC, UPLC and its application	20-02-23 to 04-03-23	08
5.	Two week Add on Programme on Current Good Manufacturing Practices	17-04-23 to 29-04-23	108
6.	Two week Add on Programme on Thesis writing	24-04-23 to 06-05-23	11

  
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GUDLAVALLERU - 521 356



A Thesis on  
DESIGN, FORMULATION & EVALUATION OF MOSQUITO REPELLENT  
INCENSE STICKS & VANISHING CREAM USING LIMONENE OIL EXTRACT  
FROM CITRUS FRUIT PEELS



*Dissertation submitted to*  
**Jawaharlal Nehru Technological University Kakinada,**  
**Kakinada**

In Partial Fulfillment for the Award of the Degree of  
**Bachelor of Pharmacy**

**By**

K.GOPAL (199V1R0042)

K.SUBRAMANYA SWAMY (199V1R0043)

K.ALEKHYA (199V1R0044)

K. SHINY (199V1R0045)

K. VIJAY (199V1R0046)

Under the Guidance of

**Dr. MOHAN GANDHI BONTHU M. Pharm., Ph.D.**

**Associate Professor**

**DEPARTMENT OF PHARMACEUTICAL ANALYSIS**



**V. V. INSTITUTE OF PHARMACEUTICAL SCIENCES**  
**GUDLAVALLERU - 521 356, A.P.**  
**2023**



*[Signature]*  
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**Pharmaceutical Sciences**  
Seshadri Rao Knowledge Village  
GUDLAVALLERU - 521 356



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### CERTIFICATE

This is to certify that the dissertation entitle "DESIGN, FORMULATION AND EVALUATION OF MOSQUITO REPELLENT INCENSE STICKS & VANISHING CREAM USING LIMONENE OIL EXTRACT FROM CITRUS FRUIT PEELS" done for the partial fulfilment for the award of degree of *Bachelor of Pharmacy* has been carried out by K. GOPAL, K. SUBRAMANYA SWAMY, K. ALEKHYA, K. SHINY, K. VIJAY under the supervision and guidance of Dr. MOHAN GANDHI BONTHU M. Pharm., Ph.D., Associate Professor in the Department of Pharmaceutical Analysis, V. V. Institute of Pharmaceutical Sciences during the year 2022-2023 to the Jawaharlal Nehru Technological University Kakinada, Kakinada.

*Handwritten signature*  
20/4/23

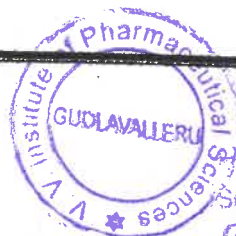
Place: Gudlavalleru

Date: 25/3/23



*Handwritten signature*  
Dr. A. LAKSHMANA RAO M. Pharm., Ph.D., FIC  
PRINCIPAL

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Seshadri Rao Knowledge Village  
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Seshadri Rao Knowledge Village  
GUDLAVALLERU - 521 356

A Thesis on  
**Phytochemical Profiling of *Ipomoea sagittifolia***  
**by HPTLC Fingerprints**



*Dissertation submitted to*  
**Jawaharlal Nehru Technological University Kakinada,**  
**Kakinada**

*In Partial Fulfillment for the Award of the Degree of*  
**Bachelor of Pharmacy**

**By**

T. SOWMYA SRI (199V1R0080)

T. AKHILA (199V1R0081)

T. RAJ KUMAR (199V1R0082)

V. CHAITANYA LAKSHMI (199V1R0083)

VASAVI RAJARAJESWARI. G(199V1R0084)

**Under the Guidance of**

**Dr. P. Raveesha** M Pharm, PhD

**Professor**

**Department of Pharmacognosy**

**V. V. INSTITUTE OF PHARMACEUTICAL SCIENCES**

**GUDLAVALLERU- 521 356, A.P.**

**2023**



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E-mail: venkatadripharmacy@gmail.com, Website: [www.vvipsgudlavalleru.ac.in](http://www.vvipsgudlavalleru.ac.in)

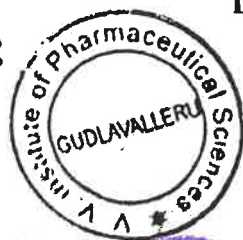
## CERTIFICATE

This is to certify that the dissertation entitled "**Phytochemical profiling of *Ipomoea sagittifolia* by HPTLC Fingerprints**" done for the partial fulfilment for the award of degree of **Bachelor of Pharmacy** has been carried out by T. Sowmya Sri, T. Akhila, T. Raj Kumar, V. Chaitanya Lakshmi, Vasavi Raja Rajeswari. G under the supervision and guidance of **Dr. P. Raveesha**, Professor in the Department of Pharmacognosy, V. V. Institute of Pharmaceutical Sciences during the year 2022-2023 to the Jawaharlal Nehru Technological University Kakinada, Kakinada.

*Sowmya Sri*  
25/03/23

Place: Gudlavalleru

Date: 25.03.2023



*A. Lakshmana Rao*  
Dr. A. LAKSHMANA RAO *M.Pharm., Ph.D*

Professor & Principal  
V. V. Institute of  
Pharmaceutical Sciences  
Seshadri Rao Knowledge Village  
GUDLAVALLERU - 521 356

*A. Lakshmana Rao*  
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# DR. JAI LIFE SCIENCES

IEC CODE : ANCPJ8357Q  
GST NO : 33ANCPJ8357Q1ZF  
PAN NO : ANCPJ8357Q

09-07-2023.

## TO WHOM SO EVER IT MAY CONCERN

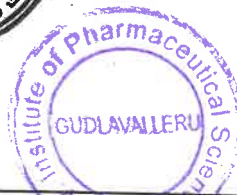
This is to certify that Ms. CH. KUSUMANJALI DEVI (209V1R0003) student of Vallabhaneni Venkatadri Institute of Pharmaceutical Sciences, Seshadri Rao Knowledge village, Gudlavalleru-521356 has undergone Industrial Training in our premises for a period of one month from 10-06-2023 to 09-07-2023.

During above mentioned period we observed that she is sincere and hard working.

We wish her all the success in her future endeavours.

For DR.JAI LIFE SCIENCES

Authority Signature



*ARRAO*  
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ADDRESS: NO 9 , FIRST FLOOR, KAVARAI STREET , KAVERIPAKKAM , RAMIPET DISTRICT, TAMILNADU  
INDIA. PIN CODE : 632508. PHONE : +91 98419 72074 , DRUG LICENSE NO:06/VLV/501/20B , 06/VLV/466/21B  
, EMAIL : [DRJAILIFESCIENCES@GMAIL.COM](mailto:DRJAILIFESCIENCES@GMAIL.COM)



# Cera Biologicals India Pvt Ltd

"Quality is more than a Promise"

Shed No.1, Plot No. 139, Phase-V, IDA Jeedimetla, Hyderabad - 55

09-07-2023.

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. M. SIVA RAM (209V1R0061)** student of Vallabhaneni Venkatadri Institute of Pharmaceutical Sciences, Seshadri Rao Knowledge village, Gudlavalleru-521356 has undergone Industrial Training in our premises for a period of one month from 10-06-2023 to 09-07-2023.


During above mentioned period we observed that he is sincere and hard working.

We wish him all the success in his future endeavours.

For CERA BIOLOGICALS

  
Authority Signature



  
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## INDUSTRIAL VISIT REPORT

**Date:** 13-03-2023

V. V. Institute of Pharmaceutical Sciences, Gudlalleru had organized 2 days industrial visit to Biofact research PVT LTD and Andhra Pradesh Medtech zone LTD for the students of II B. Pharmacy as it benefits the students to acquire knowledge regarding the manufacturing and analytical techniques followed in the pharmaceutical industry.

Mr. V. L. Vinod Kumar had taken initiative with the guidance of principal Dr. A. Lakshmana Rao. Mr. V. L. Vinod Kumar and Ms. D. Lavanya were allotted as the co-ordinators for the 2 days industrial visit. Students 58 in number, of II B. Pharmacy along with staff coordinators started their journey on 07-03-2023 to Visakhapatnam from gudlalleru through train and reached Visakhapatnam by 6.00 A.M. and reached industry as per schedule.

### **Day 1: Biofact research Pvt Ltd**

The general manager of the company introduced the students and faculty members to Sr. Manager of the company. Students are segregated into different batches and visited the company.

Biofact research Pvt. Ltd is a contract research organization that started operations in 2019 with a thirst to provide regulatory compliant research and developmental services to Pharma, Biotech and other industries in line with all the applicable current regulatory standards by majorly implementing paper less data management and all the laboratory activities are performed, monitored and tracked through a validated online data management system.

### **Day 2: Students visited Andhra Pradesh Medtech zone LTD**

The general manager of the company introduced the students and faculty members to Sr. Manager of the company. Students are segregated into different batches and were taken into each department of the company.

Medivalley Incubation Council is an innovation arm of the pioneering medical device manufacturing ecosystem, the Andhra Pradesh MedTech Zone (AMTZ). Medi Valley Atal Incubation Centre is funded by NITI Aayog under the Atal Innovation Mission. AMTZ IC-SCR, the IEC (Institutional Ethics Committee) aims to facilitate the focused research involving human participants following local and international ethical guidelines.



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E-mail : venkatadripharmacy@gmail.com, Website : www.vvipsgudlavalleru.ac.in

## BENIFITS OF THE VISIT:

- Students understood the functioning of the Biofact research Pvt. Ltd and Andhra Pradesh Medtech Zone
- Students interacted with industrial experts and learned about working environment in the industries.
- Students acquired key points about paperless data management system.
- Students understood about various carrer opportunities in industries. The visit seems to be very informative and gave good learning experience.



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21<sup>st</sup> September, 2022.

**NOTICE**

Schedule of III B.Pharmacy I Semester (2022-23) I Mid Examinations:

Date & Day	Subject
26-09-2022 (Mon)	Medicinal Chemistry-II
27-09-2022 (Tue)	Industrial Pharmacy-I
28-09-2022 (Wed)	Pharmacology-II
29-09-2022 (Thu)	Pharmacognosy & Phytochemistry-II
30-09-2022 (Fri)	Pharmaceutical Jurisprudence

Timings: 09:30 AM to 10:30 AM

*S. A. S.*  
21/9/22  
Examination Incharge

*ARAO*  
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*ARAO*  
21/9/22  
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23<sup>rd</sup> September, 2022.

**NOTICE**

**Invigilation Schedule of III B.Pharmacy I Semester (2022-23) I Mid Theory Examination:**

Date & Day	Subject	Room No. & Invigilator	Timings
26-09-2022 (Mon)	MC-II	203: Ms. B. Satya Sree, 204: Ms. M.L.N.T. Amaleswari, 212: Dr. Sk. Aminabee, 213: Dr. P. Raveesha	09:00 AM to 10:00 AM
27-09-2022 (Tue)	IP-I	203: Ms. A. Pallavi, 204: Dr. Sk. Aminabee, 212: Ms. T. Kundana, 213: Ms. M. Yamini	09:30 AM to 10:30 AM
28-09-2022 (Wed)	PCL-II	203: Dr. P. Raveesha, 204: Ms. B. Satya Sree, 212: Ms. A. Pallavi, 213: Ms. M.L.N.T. Amaleswari	09:30 AM to 10:30 AM
29-09-2022 (Thu)	PCG & PC-II	203: Ms. T. Kundana, 204: Ms. M. Yamini, 212: Dr. P. Raveesha, 213: Dr. Sk. Aminabee	09:30 AM to 10:30 AM
30-09-2022 (Fri)	PJ	203: Ms. M.L.N.T. Amaleswari, 204: Ms. A. Pallavi, 212: Ms. T. Kundana, 213: Ms. B. Satya Sree	09:30 AM to 10:30 AM

Sk. A. S. 23/9/22  
Examination Incharge



Ar Rao  
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V. V. Institute of  
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Seshadri Rao Knowledge Villag  
GUDLAVALLERU - 521 356

Ar Rao  
PRINCIPAL 23/9/22



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21<sup>st</sup> December, 2022.

**NOTICE**

**Schedule of I M.Pharmacy I Semester (2022-23) I Mid Examinations:**

Date & Day	Subject	Timings
26-12-2022 (Mon)	Modern Pharmaceutical Analytical Techniques	02:00 PM to 03:30 PM
27-12-2022 (Tue)	Advanced Pharmaceutical Analysis	02:00 PM to 03:30 PM
28-12-2022 (Wed)	Pharmaceutical Validation	02:00 PM to 03:30 PM
29-12-2022 (Thu)	Food Analysis	02:00 PM to 03:30 PM

*8k.A.S.*  
21/12/22  
Examination Incharge

*AKRao*  
21/12/22  
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*AKRao*  
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23<sup>rd</sup> December, 2022.

**NOTICE**

**Invigilation Schedule of I M.Pharmacy I Semester (2022-23) I Mid Theory Examination**

Date & Day	Subject	Room No. & Invigilator
26-12-2022 (Mon)	Modern Pharmaceutical Analytical Techniques	205: Ms. T. Prasanthi
27-12-2022 (Tue)	Advanced Pharmaceutical Analysis	205: Dr. B. Mohan Gandhi
28-12-2022 (Wed)	Pharmaceutical Validation	205: Ms. A. Sai Datri
29-12-2022 (Thu)	Food Analysis	205: Ms. K. Parimala

**Timings: 02:00 PM to 03:30 PM**

*S.R.A.*  
23/12/22  
**Examination Incharge**

*A.R.RAO*  
23/12/22  
**PRINCIPAL**

Dr. B. Mohan Gandhi

Ms. T. Prasanthi

Ms. A. Sai Datri

Ms. K. Parimala

*[Signature]*  
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UNIVERSITY EXAMINATION CENTER, KAKINADA

702  
13-12-22  
H.R.G.

**III B.PHARMACY I SEMESTER (PCI, R16 & R13) REGULAR/SUPPLEMENTARY EXAMINATIONS, DEC/JAN – 2022/2023**

**REVISED TIME TABLE**

**TIME: 10.00 AM TO 01.00 PM**

DATE & DAY	PCI REGULATION REGULAR/SUPPLEMENTARY	R16 REGULATION SUPPLEMENTARY	R13 REGULATION SUPPLEMENTARY
26-12-2022 (Monday)	Medicinal Chemistry – II (BP501T)	Pharmacognosy-II (PHR16311)	Pharmaceutical Biochemistry (B133101)
28-12-2022 (Wednesday)	Industrial Pharmacy – I (BP502T)	Medicinal Chemistry-II (PHR16312)	Medicinal Chemistry – II (B133102)
30-12-2022 (Friday)	Pharmacology – II (BP503T)	Pharm. Technology-I (PHR16313)	Pharmaceutical Technology – I (B133103)
02-01-2023 (Monday)	Pharmacognosy and Phytochemistry – II (BP504T)	Environmental Sciences (PHR16314)	Pharmacology – I (B133104)
04-01-2023 (Wednesday)	Pharmaceutical Jurisprudence (BP505T)	Pharm. Management (PHR16315)	Pharmaceutical Management (B133105)

**NOTE:**

- (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.
- (ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
- (iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY

DATE: 09-12-2022

H. R. G.

Controller of Examinations



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UNIVERSITY EXAMINATION CENTER, KAKINADA

**M. PHARMACY I SEMESTER (PCI REGULATION) REGULAR/SUPPLEMENTARY EXAMINATIONS, APRIL - 2023**  
(2019, 2020, 2021 & 2022 Admitted Batches only)

## TIME TABLE

TIME: 10:00 AM TO 01:00 PM

BRANCH & SPECIALIZATION	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
PHARMACEUTICAL CHEMISTRY (02)	Modern Pharmaceutical Analytical Techniques (MPC101T)	Advanced Organic Chemistry -I (MPC102T)	Advanced Medicinal Chemistry (MPC103T)	Chemistry of Natural Products (MPC104T)
PHARMACEUTICS (03)	Modern Pharmaceutical Analytical Techniques (MPH101T)	Drug Delivery Systems (MPH102T)	Modern Pharmaceutics (MPH103T)	Regulatory Affairs (MPH104T)
PHARMACOLOGY (06)	Modern Pharmaceutical Analytical Techniques (MPL101T)	Advanced Pharmacology-I (MPL102T)	Pharmacological and Toxicological Screening Methods-I (MPL103T)	Cellular and Molecular Pharmacology (MPL104T)
PHARMACOGNOSY (07)	Modern Pharmaceutical Analytical Techniques (MPG101T)	Advanced Pharmacognosy-1 (MPG102T)	Phytochemistry (MPG103T)	Industrial Pharmacognostical Technology (MPG104T)
PHARMACY PRACTICE (08)	Clinical Pharmacy Practice (MPP101T)	Pharmacotherapeutics-I (MPP102T)	Hospital & Community Pharmacy (MPP103T)	Clinical Research (MPP104T)
INDUSTRIAL PHARMACY (09)	Modern Pharmaceutical Analytical Techniques (MIP101T)	Pharmaceutical Formulation Development (MIP102T)	Novel drug delivery systems (MIP103T)	Intellectual Property Rights (MIP104T)



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204  
3-4-2023

*Arjun*



BRANCH & SPECIALIZATION	17.04.2023 (Monday)	19.04.2023 (Wednesday)	21.04.2023 (Friday)	24.04.2023 (Monday)
PHARMACEUTICAL QUALITY ASSURANCE (15)	Modern Pharmaceutical Analytical Techniques (MQA101T)	Quality Management System (MQA102T)	Quality Control and Quality Assurance (MQA103T)	Product Development and Technology Transfer (MQA104T)
PHARMACEUTICAL ANALYSIS (16)	Modern Pharmaceutical Analytical Techniques (MPA101T)	Advanced Pharmaceutical Analysis (MPA102T)	Pharmaceutical Validation (MPA103T)	Food Analysis (MPA104T)
PHARMACEUTICAL REGULATORY AFFAIRS (17)	Good Regulatory Practices (MRA101T)	Documentation and Regulatory Writing (MRA102T)	Clinical Research Regulations (MRA103T)	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbs, and Food & Nutraceuticals In India and Intellectual Property Rights (MRA104T)

- NOTE: (i) If Government declares holiday on any of the above dates, the examinations will be conducted as usual  
(ii) Any omissions or clashes in this Time Table may please be informed to the Controller of Examinations immediately.  
(iii) The Principals are requested to inform the University, if any other substitute subjects that are not included in the above time table immediately

Date: 31-03-2023

  
Controller of Examinations (PG)

  
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**V. V. INSTITUTE OF PHARMACEUTICAL SCIENCES**  
**Seshadri Rao Knowledge Village, Gudlalleru- 521356.**

**RESULT ANALYSIS (2022-2023)**

III B. Pharmacy SEM: I

Name of the faculty : Ms. B. Satya Sree

Name of the subject : Medicinal Chemistry-II

No. of students appeared : 102

No. of students passed : 100

% of pass : 98.04

MARKS RANGE	NO. OF STUDENTS
O	0
A	27
B	46
C	22
D	5
F	2
AB	0

Highest Grade: O

Class Average Grade: A

No. of students above and equal to average: 27

No. of students below average: 73

Students Failed Only in This Subject (Single Subject): 2



*Arora*

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*Satya Sree B*

Signature of the Staff Member



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Seshadri Rao Knowledge Village, Gudlavalleru- 521356.

RESULT ANALYSIS (2022-2023)

I M. Pharmacy I Semester

Name of the faculty : Dr. T. Prasanthi  
Name of the subject : Modern Pharmaceutical Analytical Techniques  
No. of students appeared : 08  
No. of students passed : 08  
% of pass : 100

MARKS RANGE	NO. OF STUDENTS
O	0
A	0
B	5
C	1
D	2
F	0
AB	0

Highest Grade: O


Class Average Grade: C

No. of students above and equal to average: 06

No. of students below average: 02

Students Failed Only in This Subject (Single Subject): 00



  
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Signature of the Staff Member